# **Self-Assessments**

on Concept (1.3)

Self-Assessment	10 On Lesson 1

36	FII-ASSESSII	lent 10	The Lesson		
(A) Put (✓) or (X)	:				
1. Eyes send info	rmation through	nerves to the b	orain for processing them.	(	)
		t the back of ca	it's eyes depends on soun	d	
to detect the pr	W.■	. data a balkan Ha	h	(	)
3. Fishing cat has	s excellent night	vision better th	an numan.	(	)
(B) Give a reason					
The fishing cat	's eyes pupils op	oen widly at the	low-light places.		
					••
(A) Choose from	column (B) what	t suits it in colu	mn (A) :		
(A)		1	(B)		
1. Fishing cat	a. depends o	n touch to hunt			
2. Human	b. has no mir	ror-like membra	ane at the back of the eye		
	c. has a mirro	or-like membrar	ne at the back of the eye.		
	1		2		
(B) Give a reason	for the following	ng:			
			t a source of light.		
Choose the corre	ct answer:				
		rror-like membr	ane like which is found in	fishing	3
0.5	5		e correct, except that hum		50
eyes					
a. seem to glov					
b. have excelle					
	ight vision goggl		.iaht		
	g source of light			sile	
a. equal to	b. smaller tha		human's eyes pup r than   d. wider than	ms.	
•				t night	2
	nowing animals i	ilas ille ability it	ofly but can't see clearly at	. mgm	•
a. Fishing cat.	b. Snake.	c. Bat.	d. Fennec fox.		

<ul><li>4. All the following ha. owls.</li><li>c. panther chame</li></ul>		ral adaptation in their ey b. fishing cats. d. bats.	yes, <u>except</u>	
Self	f-Assess	ment (11) till Le	sson 2	
1 (A) Put (✓) or (X):				
	een ball ins	ide a transparent glass	box.	( )
2. Opaque objects a	allow light to	pass through and we o	an see objects	
through them.	e 3.e			( )
<ol><li>In a completely d opaque objects c</li></ol>	19700	e can see the transpare	ent objects but	( )
				( )
(B) Give a reason for				
You can see clea	rly through	air.		
(A) Chaosa from so	lumn /D\ w/	hat cuits it in column (A	\.	
(A) Choose from Co	iumin (b) wi	hat suits it in column (A	.).	
(A)	S.12 ( 1)	(B)		
1. Water	a. It is an o	paque material, that reflec	cts light in different di	rections.
2. Glass	b. It is a so	ource of light energy.		
3. Wood	c. It is a tra	ansparent material that is	s used in making wi	ndows.
	d. It is a tra	ansparent liquid materia	ıl.	
1		2	3	
(B) Cross out the od	ld word :			
1. Mirror – Cloth – F		od sheet.		()
2. Wood door – Boo				()
				,
B Look at the opposi		nen answer	Gla	ss cup
the questions below		ne other side of cup?		ins water
,=	100			
2. From this activity			(a)	
a. water and glas	₹.			
b. water and glas	s are trans	parent objects.		

c. water is an opaque object, while glass is a transparent one. d. glass is an opaque object, while water is a transparent one.

# Self-Assessment 12 till Lesson 3

1	(A) Put ( $\checkmark$ ) or ( $x$ ):					
	1. Firefly beetles for	m different flash	patterns by using the	eir legs.	(	)
	2. Speaking is one	of the ways to co	mmunicate with peop	ole.	(	)
	3. Light energy not	used by humans	or firefly beetles for o	communication.	(	)
	(B) Give a reason for the wings of find between them.		ay an important role	e in the commu	nicati	on 
2	(A) Correct the und	erlined words :				
	-	a Bi Castilli	fly beetles is conside			١
	as a <u>structural</u> ad		d in communication	(		)
	<ol><li>A cell phone is a complete between animals.</li></ol>	device that is used	u in communication	(		)
	3. Reading is a type	of communicatio	n that depends on	•		
	the sense of taste	<u>.</u>		(		)
	(B) How can firefly	insects produce l	light to communicate	with each other	?	
						••••
3	Choose the correct	answer :				
	1 is a type of	of communication	n which is used by hu	mans only.		
	a. Sound	b. Light	c. Echolocation	d. Cell phone		
	2. Which of the follo	wing is not a rea	son for firefly beetles	produce a flash l	ight?	,
	a. To attract a ma	te.	b. For communic	ation.		
	c. To warn off fror	n predators.	d. To hear in the	dark.		
	3 is conside	ered a type of cor	mmunication used by	animals only.		
	a. Writing	b. Echolocation	n c. Reading	d. Cell phone		
	4. A firefly is not a bi	ird, but it is a type	e of			
	a. amphibians.	b. lizards.	c. beetles.	d. reptiles.		

# Self-Assessment 13 till Lesson 4

(A) Choose the correct answer:	•					
All of the following use light energy	**************************************					
a. lighthouses.	b. traffic lights.					
c. musical instruments.	d. firefly beetles.					
2. Some living organisms can use light	ht energy in communication such as					
a. humans only.	b. firefly beetles only.					
c. humans and firefly beetles.	d. bats and firefly beetles.					
3. The is the only living organis communicate with each other.	m that can use language and speech to					
a. whale b. owl	c. firefly beetles d. human					
(B) Give a reason for the following:						
In cats' eyes the mirror-like membra dark room.	ane cannot make its function in a completely					
(A) Put (🗸) or (X) :						
<ol> <li>People who are lost in the desert of of rescue helicopters</li> </ol>	can use mirrors to attract the attention (					
2. Writing is a type of communication	that is used by human only. (					
3. Musical instruments cannot be use	ed to send codes for communication. (					
(B) What happens if ?	(B) What happens if ?					
The structure of fishing cat's eyes a	The structure of fishing cat's eyes are like that of human's eyes.					

### **3** Complete the following table using the words below:

(communicate - eyes - flash patterns - light reflection - bodies - hunt chemical reaction - mirror - like membrane)

Fishing cats	Firefly beetles
There is a special structure known as a presents at the back of	They produce light, due to the occurrence of a inside
their	their
2. The special structure of sight causes to collect more light,	They use their wings to form different that help them
and helps them to at night.	toat night.

# **Model Exam** 1



# on Concept (1.3)

Total	mark
<u> </u>	<u> </u>

1 (A) Choose the correct answer:	( 5 marks)
1 can communicate by displaying	light.
	plants
c. All plants and animals d. Hu	imans and some animals
2. Each of human and fishing cat,	
a. has a mirror-like membrane in their	eyes.
b. has an excellent night vision.	
c. has two eyes adapted for vision.	
d. becomes more active at night.	
3. Which of the following communications	depends on the sense of sight only?
a. Watching TV. b. Fla	ashing lights of fireflies.
c. Echolocation. d. Us	sing the cell phone.
4. Painted surface the incoming light	ght rays.
a. absorbs only b. re	flects only
c. absorbs and reflects d. all	ows to pass
(B) Give a reason for the following:	
You can see an object placed behined	d a glass cup.
2 (A) Put (✓) or (X):	(5 marks)
1. Transparent objects don't allow light t	o pass through them. ( )
2. Human has huge eyes like fishing cat to	gather and reflect any light available. ( )
3. Nocturnal animals have bigger eyes t	han humans. ( )
4. Human can see in dim light as well as	in bright light if his eyes contain
a mirror-like membrane.	( )
(B) What happens if ?	
Light falls on a rough surface.	

2. Flashlight – The moon – Mirror.

3	(A) Complete the following sentences :	(5 marks)
	<ol> <li>The is the main control center in humans and animals bodies, are considered the organ of sight in their bodies.</li> </ol>	while
	2. Fishing cats depend on the sense of in weak light levels, while complete darkness they depend on the senses of and	e in
	3. In the eyes of animals, there is a mirror-like membrane that	light.
	4. Paper and a piece of cloth are considered surfaces that diffus energy.	e or scatter
	(B) Cross out the odd word:	
	1. Fire – Candle – The moon. (	)

(.....)

# **Model Exam** 2

# on Concept (1.3)

Total	mark
1	5

1 (A) Choose the correct answer:  1. The mirror-like membrane of the animal ani	b. at the back d. at the back he form of wave c. zigzag non types of con c. animals	k of the eye. k of the brain. es. d. straight mmunication in world d. insects		
understanding, a. legs b. stomach	c. brain	d. hands		
(B) Give a reason for the following The fishing cat's eyes seem to	The same of the sa	rk.		
<ol> <li>(A) Complete the following sent</li> <li>Human can see objects which</li> <li>Rough materials reflect light</li> <li>A group of firefly beetles can of another group to communic</li> <li>Ears of humans detect</li> <li>(B) What happens if?</li> <li>The mirror-like membrane in the</li> </ol>	give off their ow than smoo change their ow ate. energy, while th	oth materials.  n to match the flash  eir eyes detect energ	patter	ht.
<b>3</b> (A) Put (✓) or (X):			(5 mai	rks)
1. Cats have excellent night vision			(	)
2. Mirror reflects most of incomin	8 YOR	t fall on it.	(	)
<ol> <li>Different languages have simil</li> <li>A cell phone is a device that is</li> </ol>		unication between enimals	(	)
(B) Write the scientific term of e  1. Materials that allow light to pas	ach of the follo	owing:		)
2. The sense organ of light		(		)

# **Self-Assessments**

on Concept (2.1)

2. E 3. Y (B)	Engineers use the same i	of fire extinguishers,	Juck.
2 (A)	Choose from column (B)	what suits it in column (A):	
	(A)	(B)	
	1. Normal engine	a. is used in stopping both of the	
	2. Jet engine	Shockwave truck and rockets.	
	3. Parachute	b. is used in moving a normal truck.	
		c. is used to stop a normal truck.	
		d. is used in moving the Shockwave truck.	
	1	2	
/m1 =	Which is faster, a normal	truck or the Shockwave truck ?	
	(Give a reason for your a	answer).	
	(Give a reason for your a	of the most powerful and fastest trucks in the work	d :
3 This	(Give a reason for your a	of the most powerful and fastest trucks in the work	d :

# Self-Assessment 15 till Lesson 2

(A) Choose the correct answer:	
1. A book is placed on a table is affected by	
a. gravity pulling force only.	
b. table pushing force only.	
c. table pulling force and gravity pushing force.	
d. table pushing force and gravity pulling force.	
2. When you sit on a chair which of the following sentences is correct	t ?
a. gravity pulling you upward.	
b. gravity pulling you downward.	
c. chair pulling you upward.	
d. chair pushing you downward.	
3. We can see all the following motions, except	
a. the rotation of Earth around the Sun.	
b. a person crossing the road.	
c. a person riding a bicycle.	
d. a person swimming in the sea.	
(B) What happens if ?	
The pulling force of one of the two teams in tug-of-war game become	mes greater
than the other team.	nico giodici
2 (A) Correct the underlined words :	
1. To move up any object from the ground, the pulling force of your	,
hand must be smaller than the pulling force of the gravity.	()
2. In tug-of-war game, the winner team is the team with the weaker for	orce. ()
3. You can stop the ball that is thrown toward you by the pulling	()
<ol> <li>You can stop the ball that is thrown toward you by the <u>pulling</u> force of your hands against the ball movement.</li> </ol>	()
(B) Give a reason for the following:	·····/
Parachutes are used in the Shockwave truck and rocket .	

# Revision

# Concept 1.3 Light and Sight

energy a	ffects the sensory	receptors in the	eyes, causing
vision.			
a. Sound	b. Kinetic		d. Magnetic
The organ respo	onsible for the sen	se of sight is the _	territorial and the second of
a. ears	b. tongue	c. nose	d. eyes
Each of the follo	wing is considered	d a source of light	, except
a. fire	b. the Sun	c. the lamp	d. the eye
Which of the foll	owing is a source	of light?	
	b. Our eyes		d. Mirror
The eyes of noc	turnal animals are	the huma	ın eye.
a. smaller than	b. bigger than	c. the same as	d. narrower than
	s and owls		
a. can swim		b. are nocturnal	
c. can fly		d. can rotate the	eir eyes
Humans have _	eyes than n	octurnal animals.	CALADA S
a. bigger	b. smaller		d. sharper
The pupils of no	octurnal animas	pen humar	ns' pupils.
a. wider than	b. similar to	c. narrower than	d. shorter than
9 The eyes of	glow in the do		
u. Data	b. cats	c. penguins	
10 What feature of	f light helps you se	ee yourself in the n	nirror?
a. Refraction	b. Ray length	c. Shortness	d. Reflection
11) Light travels in .			deiroular
a. curved	b. straight		d. circular
AND REAL PROPERTY.	ollowing material o	does not form a st	nadow when ligh
falls on it?	h Glass	c. Carton	d. Tree
a. Wood	b. Glass		e Prim. 4 - First Term 79

THE REVISION		
13 Which of the following allows li	aht to pass throu	igh it?
Q. Dass through it	h reflect in	different directi
C. reflect in the same than	b. reflect in t	that of sound
15 is /ana assault	d. diffuse like	that of rough surf
Metals	transparent obje	cts.
16 All the falls	c. Mirrors	d. Wood
are transparen	t materials, excep	ot
b. air	c paper	d lenses
and the following materials are	e opaque, except	
b. the human h	oduc water	d iron
when light falls on a dark surface	CP.	
and the light	h light nacce	s through it
"air is reflucted	d nothing ha	nnone
ong is not a bird, but it is a ti	ine of	
D. lizards	c hootles	al accusin
20 Changing the pattern of lighting	Up in a firefly in	a. reptiles
adaptation(s)	op in a niretily is ai	n example of
	b physical	
c. structural		d behavioral
21 produce a chamica	d. benavioral	
a. Butterflies	reaction inside the	neir bodies.
c. Houseflies		
	u. Owis	
a. colors	g It down is a kind	d of
C. waves		
	The Late of the La	
Complete the following senter	ices using the	Mordo b
produce a chemical reaction inside their bodies.  a. Butterflies b. Fireflies c. Houseflies d. Owls  Raising your thumb up or lowering it down is a kind of a. colors b. codes c. waves d. lights  Complete the following sentences using the words between the brackets:  The eye pupils of owls open than the eye pupils of human (narrower - wider)  is from the sources of light.  (The moon - Fire		
2 is from the sources of light		
Science Prim. 4 - First Term		moon file)

3 Air and water are materials and you can see things the	rou	gh
them. (transparent - op	paqu	je)
Smooth surfaces reflect light in direction(s).		
(the same - dif	fere	nt)
5 Light does not pass through matter. (transparent - or	oaqu	Je)
6 is from the opaque objects. (Carton -	Gla	SS)
7 When light is scattered from a surface in different directions, th	nis	
surface is (rough - sr		th)
8 The different languages are considered as (codes -	ligh	ts)
Put (/) or (X):		
Both humans and animals need a light source to see.	(	)
2 The human eyes can see in the dark clearly.	(	)
3 Humans can see in dim light better than in bright light.	(	)
The moon is considered a light source.	(	)
5 All nocturnal animals have excellent night vision.	(	)
6 Nocturnal animals have eyes that are bigger than the human	eyes	S.
cross out the odd went:	1	)
7 Some animals can see clearly at night, such as a wild cats.	(	)
8 The fishing cat can't hunt in the dark.	(	)
9 Cats have excellent night vision, while bats don't.	(	)
10 Wood is a transparent object that allows light to pass through	it. (	)
11 The wooden board reflects less light than the mirror.	(	)
12 The opaque materials do not let the light pass hrough.	(	)
13 Shadow is formed when light hits a transparent object.	(	)
14 Polished surfaces, as mirrors, reflect light rays in the same dire	ction	1.
	(	)
15 The light reflection depends on the smoothness of the objects' su	ırfac	ce.
opaquo materiala:	(	)
16 If I can see my face clearly on a surface, this means that it is		,
a smooth, shiny surface.	(	)
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Final Revision
17 A written language helps people communicate. ( 18 Fireflies can communicate with each other using sound energy. ( 19 Humans use light to communicate, such as using traffic lights. ( 20 In order for the code to be translated, the brain must identify it. ( 21 Red and green traffic lights are codes.
Write the scientific term:
1 It's the visible form of energy that travels in the form of waves. 2 It's the organ that is affected by light and is responsible for sight. 3 They're objects that emit their own light. 4 It's a tool used by people, and it works as the eyes of fishing cats at night. 5 It's a type of wild cat that has eyes that glow at night. 6 They're materials that allow light to pass through. 7 They're materials that don't allow light to pass through. 8 They are materials that reflect the light rays in one direction. 9 They are materials that diffuse light in different directions.  6 Cross out the odd word:
<ol> <li>Lenses - Air - Brick - Water</li> <li>Sun - Moon - Fire - Candle</li> <li>Wood - Glass cup - Book - Wall</li> <li>Paper - Wood - Cloth - Mirror</li> <li>Classify the following materials into transparent and opaque materials:</li> </ol>
1 A chair made of wood: 2 An aluminum pot: 3 Air: 4 Glasses of glass: Classify the following materials into transparent and opaque materials:
(Rock - Glass - Window)
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# Classify the following materials into smooth and rough materials:

(Mirror - Cloth - Metal - Wood)

# Choose from column (A) what suits it in column (B):

#### Column (A)

- 1 The Sun
- 2 Shadow
- 3 The moon
- 4 Smooth surfaces

#### Column (B)

- a. reflect light rays in one direction.
- b. is formed when the light strikes a human body.
- c. is a source of light.
- d. is shiny but is not considered a source of energy.







### Column (A)

- 1 Sight
- 2 Light
- 3 The mirror-like membrane

#### Column (B)

- a. is the visible form of energy that is transmitted in the form of waves.
- b. is a structural adaptation in the eyes that provides some animals with better vision at night.
- c. is the sense that helps us see.





### Column (A)

- 1 Rough surfaces
- 2 Light travels in
- 3 Whatching TV
- 4 Fireflies

#### Column (B)

- a. is a type of communication for humans only.
- b. light up their wings to attract a mate.
- c. diffuse light in different directions.
- d. straight lines.





# Final Revision Look at the path of the light rays in pictures (A) and (B). - Determine which of the two objects is opaque and which is transparent. (A): (B): Which of the following surfaces represents the reflection of light rays from wood and what is the reason? Your friend wants to prevent the light from entering his room. Suggest him some materials that he can use on the window to prevent the light from entering his room.

# Give reasons for:

- 1) The moon is not considered a source of light.
- 2 A candle is considered a source of light.
- 3 Nocturnal animals can see better than humans at night.
- A cat's eyes glow in the dark.
- 5 The eyes of humans do not glow like cats in the dark.
- 6 You can see an object placed behind a glass cup.
- 7 A shadow is formed when light falls on an opaque object.
- 8 None of the light energy passes through the opaque objects.

# What happens if:

- 1) Light falls on a book?
- 2 Light falls on a rough surface?

# Revision

# Concept 2,1

# Starting and Stopping

Choose the correct answer:  When an object is in motion, this	s means that its _	changes.
a. color b. shape	c. size	d. position
2 When you move something tow	ards you, this rep	resents
a. pushing force b. light energy	c. pulling force	ce d. sound energy
3 When you sit on a chair, the fo	rce of gravity is	and holding
you on the chair		
a. pulling you upward	b. pulling you	downward
c. pushing you upward	d. pushing yo	u downward
Push or pull actions are conside	red types of	•
a. forces b. devices		d. adaptations
5 The force that pulls the objects	down towards the	center of the Earth
is force.	is encourage to the I	
a. gravity b. pushing	c. air	d. wind
6 The force that occurs when an	object rubs again	st another object is
calledforce.		fibrana auras
a. pull b. push	c. gravity	
7 You can see the movement of	all the following	objects, except the
movement of	Les bus social a	
a. a flying airplane	b. a running h	
c. sea waves	d. the planet E	
8 The force that slows down (decre		
a. push b. gravity	c. friction	d. pull
9 is the ability to do worl	k. c. Push	d. Pull
a. Energy b. Force		ence Prim. 4 - First Term (85)-

o Final Revision	
10 All the following are examples of a. pulling the rope c. opening the desk's drawer	b. kicking a ball d. lifting up your bag
<ul> <li>11) When a body moves forward, the a. the position of the body</li> <li>c. the mass of the body</li> <li>12 Objects need a force to move, this a. pushing only</li> <li>c. pushing and pulling together</li> <li>13 When a ball stands on the groun on it are</li> </ul>	b. the size of the body d. Earth's gravity force is represented in b. pulling only d. the Earth gravity only id without moving, the forces acting
a. unbalanced <b>b.</b> balanced  14 In the following figure, the body is	c. pushing it up d. not equal under the effect of
Smaller Force	Greater Force
<ul> <li>a. balanced forces and is moving</li> <li>b. forces and is moving to the left</li> <li>c. unbalanced forces and is moving</li> <li>d. unbalanced forces and is moving</li> <li>The energy gained by a ball who energy.</li> <li>a. potential</li> <li>b. kinetic</li> </ul>	ng to the right ng to the left nen it falls from above is
Complete the following senter the brackets:	nces using the words between
1 The car slows down its speed who 2 The forces makes the sta	en it runs out of fuel, as a result of  (gravity - friction)  atic object move.
3 The force that pulls things down is	(balanced – unbalanced)  (friction – gravity)

\*

When playing the tug-of-war game, if each team pulls the rop	e w	ith
equal force, the forces are (balanced - unbala	nce	ed)
5 To slow down the speed of a Shockwave truck, the drivers use		
parachutes.	5 -	3)
Put (✓) or (x):	3	
1) Air resists the motion of a car.	(	)
2 Gravitational force is an upward pulling force.	(	)
3 When a pen falls from your hand, the acting force is gravity.	(	)
When a static body is affected by balanced forces, the body moves	. (	)
5 The seesaw moves up and down because the forces that act or	itc	are
unbalanced.	(	)
6 When the position of the body changes from a fixed point, we co	n s	ay
that the body moves.	(	)
7 The force that slows down or decreases the speed of an ob		is
gravity.	(	)
8 Gravity pulls objects towards the center of the Earth.	(	)
9 When a car crashes into a wall, it will not stop.	(	)
10 We eat food to gain energy.	(	
11 Unbalanced forces cause a change in the object's position.	(	)
Write the scientific term:		
1 It's the force that pulls objects towards the center of the Earth.		
2 It is a push or pull that is applied to an object making char- position.	ige	its
3 It's the force that arises when objects rub against each other.	1	

When you sit on the chair without moving:

What is the name of the force that pulls you downward?

What happens if: and wowat arragio along put and an an a

A boy on a bike stops pedaling?

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its the force that arises when objects all against each





# **November Questions Bank**



# Question 01

## choose the corret answer



		0	1 P	)		TU I	1.0
(1)	Light travels in	line	es in form of wa	aves		0.1	16 NOT
	(a) straight	<b>(b)</b>	curved	0	zigzag	d	circular
2	Which of the foll objects?	owing	organs are wo	rking	together for	seein	g different
	Nose and brain	<b>b</b>	Eyes and brain.	<b>©</b>	Ears and brain	<b>d</b>	Tongue an brain.
3	The organ that is	respo	nsible for the s	ense	of sight is		
	a the ear	<b>(b)</b>	the tongue	0	the nose	d	the eye
4	All the following	things	are considered	d as lig	ght sources, e	excep	t
	(a) the Sun	<b>b</b>	fire	0	eyes	d	the light lan
(5)	Which of the follo	owing	is a source of li	ight?			
	a the moon	<b>b</b>	our eyes	0	fire	d	mirror
6	All the following	consid	dered as a sour	ce of I	ight except .		
3	a sun	<b>(b)</b>	candle	<b>©</b>	fire	<b>d</b>	moon
7	eye glo	ws and	d it can see in t	he da	rk.		
S.	(a) Human	<b>b</b>	Penguin	0	Fishing Cat	<b>d</b>	Bull shark
(8)	energy	affect	s the sensory r	ecepto	ors <mark>in the</mark> eye	caus	ing vision.
12	(a) Sound	<b>(b)</b>	Kinetic	0	Light	d	Magnetic
(9)	Humans have	eye	s than nocturn	al anir	mals.		
$\sim$	a bigger	<b>b</b>	smaller	0	stronger	<b>d</b>	sharper
(10)	From transparen	t objec	ts	J-,		5	The same of
	(a) metals	<b>(b)</b>	lens	0	mirror	<b>d</b>	wood
(11)	All of the following	ng are		jects,			
5	(a) glass	В	water	<b>©</b>	paper	<b>d</b>	air



# science



primary 4 - first term

(12)	All of the followin	g are	forms of codes,	exce	pt			
_	a thumb up	<b>b</b>	faces expressions.	0	writing	<b>d</b>	swimming	
(13)	Sense organs colle and understandin			end s	ignals to	foi	processing	
	(a) hands	<b>(b)</b>	legs	0	brain	<b>d</b>	stomach	
(14)	Reading and writing	ng are	common types of	comm	nunication in	wo	rld.	
	(a) humans	<b>b</b>	animals	0	birds	<b>d</b>	plants	
(15)	Raising the thum	b up d	or lowering it de	own i	s a type of	80	35	
	(a) colors	<b>(b)</b>	codes	0	waves	d	lights	
(16)	Metal and wood a	are	materials.					
10	a opaque	В	transparent	0	liquids	<b>d</b>	gaseous	
(17)	Animals can com	nunic	ate with each o	ther	through		1 5.50°	
B	a sound and light	<b>b</b>	eating	0	writing	<b>d</b>	reading	
(18)	A firefly is not a b	ird, b	ut it is a type of		( ) ( 2 )			
4	amphibians	<b>b</b>	lizards	0	beetles	d	reptiles	
(19)	All of these mater	ials a	re opaque exce	pt				
	(a) wood	<b>(b)</b>	human body	<b>©</b>	book	<b>d</b>	water	
20	It produces chemi	ical re	eaction inside it	s bod	y			
	a butterflies	<b>b</b>	fireflies	0	house flies	<b>d</b>	owl	
QI	uestion 02 pu	ıt ( t	rue ) or ( false	e )				
ON THE	The state of	15 T	30		580 y	)		
$\Theta$	Light travels in st	3.5			b ST		200	
2	The ear is the sen	20	100		11/1/20		55	
3	Nocturnal animal			nan h	umans		\$6 3	
(4)	The fishing cat ca							
4 5 6 7	Both human and	anim	al need light to	see.			100	
6	Nocturnal animal	s hav	e eyes larger th	an hu	ıman.		201	
7	Some animals car	see o	clearly at night,	such	as a fishing c	at		





# science



		1
	~	7
-	سعید 🗸	أ.محمود

)	The human ev	yes can see in the dark clearly.	0
	War and	source of light	(
)		ction depends on smoothness of the objects' surface	ul
)		face clearly on a surface, this means that it is a	(
)	Painted surface	ce reflects light in one direction	4
)	Shadow form	ed when light hits transparent object	1
)	Wood is a trai	nsparent object that allows light to pass through it	1
)	Opaque mate	rials don't allow light to pass through	1
	Speaking, wri	ting are ways to communicate with people.	1
)	Human use lig	ght to communicate such as using traffic light	1
)	Red and green	n traffic lights are codes	1
)	Speaking is th	e only way to communicate with people	21
)	Different lang	uages have similar codes	it
Q	uestion 03	Complete the following sentences	

(	Light travels in lines.
3	is the organ that we can use to receive light.
4	You can see the objects due to the of light rays to the eyes
(5)	and are sources of light
6	The mirror-like membrane in fishing cat eyes considered as aadaptation.
7	The eye pupil of the owl and fishing cats is than the eye pupil of the human
8	Smooth surfaces reflect light in direction.
9	Rough materials reflect light than smooth materials
10	Fireflies use the sense of to communicate with each other.
(11)	Ears of humans detect energy, while eyes detect energy
12	is considered an example for transparent materials.
13	is an opaque object.
(14)	Air and water are materials and you can see things through them







# Question 04

## write scientific term for each of the following

$\subseteq$	al to	numan use to see in the dark								
(2)	2 -1	mit their own light (								
(3)	A type of wild	cats, that have eyes glow at nights.								
4	A body that appears lighted in the sky, but it is not considered as a source of light.  They are materials reflect the light rays in one direction.									
(5)	They are mate	rials reflect the light rays in one direction (								
6	A type of surfa	ce that reflects light in different direction.								
7	The object whi	ich allows light to pass through it								
8	It is a visible fo	rm of energy that travels in form of waves (								
9	The sense orga	an that can detect light energy (								
(10)	The materials v	which don't allow light to pass through. (								
(11)	It is a pattern t	hat has meaning (								
(12) (13)	meaning accor	t use symbols in a pattern to give a specific (rding to the arrangement of letter in a word orm of sounds used to transfer information (								
Ç	uestion 05	Give Reason for each of the following								
1	Fishing cat ey	es glow in the dark								
2	Nocturnal ani	mals can see better at night.								
3	Sun is conside	ered a source of light								
4	Moon is not co	onsidered as a source of light	<b>5</b>							
5	We can see ol	ojects when light fall on it	30 30							
6	The pupils of	the nocturnal animals' eyes open wider than human's e	ves							
	190		and the							





# science primary 4 - first term



7	A mirror can refle	ect light better than a painted surface.
8	You can see an o	bject placed behind a glass cup
9	When light fall o	on mirror it reflects in one direction
9	A shadow is form	ned when light falls on an opaque object.
1	The human bod	y forms a shadow when light falls on it.
2)	Fireflies produce	e different pattern of flash light
3	Fireflies produce	a chemical reaction inside their bodies
4)	Humans use rea	ding, writing and speaking
5)	The symbols tha	t are used in writing have specific pattern
	Question 06	What happens if ?
1	The fishing car	t eye don't have mirror-like membrane
2	light fall on a l	oook y y
3	When the ligh	t falls on a smooth and shiny surface as mirror
4	The light falls	on a rough surface.
	9	ansparent object as glass window







6	When firefly wants to attract a mate to reproduce?
7	When firefly beetles want to communicate
8	The traffic light becomes red while you are going to cross road

### **Question 07**

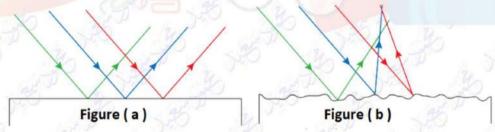
#### cross the odd word

- 1) Fire The moon The Sun The light bulb
- Wood Glass cup Book Wall
- 3 Lamp Fire Moon Candle
- Bats fireflies blind person's cane dolphins
- reading writing echolocation

### **Question 08**

### **Answer the following questions**

- Give one example for:
- A transparent material.
- **b** An opaque material.
- Objects that are considered as sources of light.
- Look at the following figures, then answer the questions below:



- Which Surface represents reflection of light rays from mirror?
- Light travel in ......lines



primary 4 - first term



# Question 01

# choose the corret answer



1	When an ob	ject is	in motion, this	s mea	ans that its		changes
0	(a) color	<b>(b)</b>	shape	0	size	<b>d</b>	position
(2)	When you m	ove s	something tow	ards	you, this rep	rese	nts
	pushing force	<b>b</b>	light energy	0	pulling force	<b>d</b>	sound energy.
(3)	All the following	g mot	ions occur by t	he ef	fect of pullin	g fo	rce, except
3	(a) kicking a ba	ıll		<b>(b)</b>	enoning a	-1	d dualities
	wearing you	ır soc	eks	<b>(d)</b>	opening a		from the ground
4	When you sit or			_		-	Tar V
المراد	chair a pulling you	LIDWA	ard	(B)	pulling you	dow	mward S
	© pushing you				pushing you		
(	Push or pull acti	J. 100				u uo	Wilvella
9	(a) force		device		energy	<b>(d)</b>	adaptation
(	9						of the earth is
<b>O</b>	(a) gravity	_	pushing	0	pulling	<b>(d)</b>	wind
7						хсер	t the <mark>movem</mark> ent
The state of the s	a flying airplane	в	running horse	<b>©</b>	sea waves	<b>d</b>	the planet Earth
(8)	Objects need a f	force	to move, this fo	orce i	s called		
7.00	a pushing only	<b>b</b>	pulling only	0	pushing and pulling	<b>d</b>	gravity only
9	When a ball sta	nds o	n the ground v	withc	out <mark>moving</mark> , t	he f	orces a <mark>cting on</mark> it
	(a) balanced	<b>(b)</b>	unbalanced	<b>©</b>	push it up	d	not equal
(10)	Which of the fo	llowi	ng will cause a	n obj	ect to move?	)	
SA	balanced forces	<b>b</b>	unbalanced forces	0	sound energy	<b>d</b>	light energy
(11)	All of the follow	ving a	re examples of	mot	ion, except	g	ALT DE ST
3	a running person	<b>b</b>	Falling ball	0	flying bird.	<b>d</b>	sleeping dog
(12)	When you throw	w a ba	all in the air, th	e gra	vity will mak	e it r	noveupward
_	(a) upward	<b>b</b>	forward	<b>©</b>	downward	<b>d</b>	backward
		-9				5	



## Question 02

# put (true) or (false)

0	it in air.	ce of gravity makes the ball falls down after throwing	1	1					
2	2 The balanced forces cause the object to move								
3									
4	Nylone and full day of frame and the action for all								
(5)									
6	Gravitational force is an upward pulling force								
7	When the p	osition of the body changes from a fixed point, the	17	٦)					
8	Unbalanced	forces cause a change in the object position	1						
Q	uestion 03	complete the following sentences using the word between brackets	7						
		(balanced – unbalanced – gravity – motion)							
(1)	The	forces cause the object to move.							
		rorces cause the object to move.							
2	starting poin	is any change in the position of an object relative to a t.		15					
<ul><li>2</li><li>3</li></ul>	starting poin When playin	is any change in the position of an object relative to a		100					
	starting poin When playin equal force, t	is any change in the position of an object relative to a t. g pulling a rope game, if each team pulls the rope with	1						
<ul><li>3</li><li>4</li></ul>	starting poin When playin equal force, t	is any change in the position of an object relative to a t. g pulling a rope game, if each team pulls the rope with the forces are	force						
<ul><li>3</li><li>4</li></ul>	starting poin When playin equal force, t The force that	is any change in the position of an object relative to a t. g pulling a rope game, if each team pulls the rope with the forces are	force						
3 4 0	starting poin When playin equal force, t The force that	is any change in the position of an object relative to a t. g pulling a rope game, if each team pulls the rope with the forces are	force						
<ul><li>3</li><li>4</li></ul>	starting poin When playin equal force, t The force that uestion 04  A force that y One of the fa	is any change in the position of an object relative to a t. g pulling a rope game, if each team pulls the rope with the forces are	force						
3 4 0 1 2	starting poin When playin equal force, t The force that uestion 04  A force that y One of the fa It is a push or change its po	is any change in the position of an object relative to a t. g pulling a rope game, if each team pulls the rope with the forces are	force						
3 4 1 2 3	starting poin When playin equal force, to The force that uestion 04  A force that y One of the fall It is a push or change its po The force that	is any change in the position of an object relative to a t. g pulling a rope game, if each team pulls the rope with the forces are	force						

جميع اسئلة الشيت اسئلة رسمية من امتحانات المحافظات يمكنكم متابعه الحل من خلال قناه كارتون ساينس





# **Answers**







# **November Questions Bank**







Ų	destion of	CHOOSE	the correc	alisw	er Jao	10	CONCEPT
(1)	Light travels i	in line	es in form of w	aves			1.3
. 0	a straight	<b>b</b>	curved	<b>©</b>	zigzag	<b>d</b>	circular
2	Which of the objects?	following	organs are wo	orking	together for	seein	g different
	Nose and brain	<b>(b)</b>	Eyes and brain	<b>©</b>	Ears and brain	<b>d</b>	Tongue and brain.
3	The organ the	at is respo	nsible for the	sense o	of sight is	•••••	<u> </u>
	a the ear	<b>b</b>	the tongue	0	the nose	<b>d</b>	the eye
4	All the follow	ing things	are considere	d as lig	ht sources, g	except	1 2 T
	(a) the Sun	<b>(b)</b>	fire	0	<u>eyes</u>	<b>d</b>	the light lam
(5)	Which of the	following	is a source of I	ight?			
	a the moon	<b>b</b>	our eyes	0	<u>fire</u>	d	mirror
6	All the follow	ing consid	dered as a sour	rce of I	ight except .	\$6	
	a sun	Ь	candle	<b>©</b>	fire	<b>d</b>	moon
7	eye	glows and	d it can see in t	he da	k.		
340	a Human	<b>b</b>	Penguin	0	Fishing Cat	<b>d</b>	Bull shark
(8)	ene	rgy affect	s the sensory r	ecepto	ors in the eye	caus	ing vision.
121	Sound	<b>(b)</b>	Kinetic	0	Light	d	Magnetic
9	Humans have	e eye	s than nocturn	al anir	nals.		
_	a bigger	<b>(b)</b>	<u>smaller</u>	•	stronger	<b>d</b>	sharper
(10)	From transpa	rent obje	cts				
~	a metals	В	lens	0	mirror	<b>d</b>	wood
(11)	All of the follo	wing are	transparent of	ojects,	except	35	
6	glass	<b>b</b>	water	•	paper	<b>d</b>	air
		21		( P)	Car 6.74		



# SCIENCE primary 4 - first term



			14	W	200	10	14070	
	All of the followin	g are	forms of codes,	exce	<u>pt</u>			
12)	(a) thumb up	<b>(b)</b>	faces expressions	0	writing	<b>d</b>	swimming	
13)	Sense organs colle understanding.	ct inf		end s	ignals to	for	processing ar	
	(a) hands	<b>(b)</b>	legs	0	<u>brain</u>	<b>d</b>	stomach	
4	Reading and writi	ng are	common types of	comm	unication in	wor	ld.	
J	a humans	<b>b</b>	animals	0	birds	<b>d</b>	plants	
5	Raising the thum	b up o	or lowering it de	own i	s a type of	35	B	
	(a) colors	<b>b</b>	codes	0	waves	<b>d</b>	lights	
6)	Metal and wood a	re	materials.					
	a <u>opaque</u>	<b>b</b>	transparent	0	liquids	d	gaseous	
7	Animals can com	munic	ate with each o	other	through		10 SE	
2	a sound and light	<b>(b)</b>	eating	0	writing	<b>d</b>	reading	
8	A firefly is not a b	ird, bu	ut it is a type of					
	amphibians	<b>(b)</b>	lizards	0	beetles	<b>d</b>	reptiles	
9	All of these mater	ials ar	re opaque exce	pt				
	(a) wood	<b>b</b>	human body	0	book	<b>d</b>	water	
0	It produces chem	ical re	action inside it	s bod	y			
D \	a butterflies	<b>b</b>	fireflies	0	house flies	<b>d</b>	owl	
Qı	uestion 02 pr	ıt ( tı	rue ) or ( false	e )			CONCEPT 1.3	
)	Light travels in st	raight	lines.				10 V	
5	The ear is the sen			for s	eeing objects		<b>X</b>	
	Nocturnal animals have bigger eyes than humans							
	The fishing cat can't hunt in the dark							
0	Both human and	anima	al need light to	see.				
9	Nocturnal animal	s have	e eyes larger th	an hu	ıman.		TO TO	
	Some animals car	see c	learly at night,	such	as a fishing c	at y	V 1	
3	The human eyes	can se	e in the dark cl	early.			×	





### science





0		85
9	The moon is a source of light	×
10	The light reflection depends on smoothness of the objects' surface	$\checkmark$
11)	If I can see my face clearly on a surface, this means that it is a smooth, shiny surface.	10 V
12	Painted surface reflects light in one direction	×
13	Shadow formed when light hits transparent object	×
14	Wood is a transparent object that allows light to pass through it	×
15	Opaque materials don't allow light to pass through	
16	Speaking, writing are ways to communicate with people.	30 1
17	Human use light to communicate such as using traffic light	~
18	Red and green traffic lights are codes	24
19	Speaking is the only way to communicate with people	×
20	Different languages have similar codes	×

### **Question 03**

### Complete the following sentences

- The form energy that can be seen is light energy.
- Light travels in straight lines.
- eve is the organ that we can use to receive light.
- You can see the objects due to the reflection of light rays to the eyes
- sun, candle and fire are sources of light
- The mirror-like membrane in fishing cat eyes considered as a structural adaptation.
- The eye pupil of the owl and fishing cats is wider than the eye pupil of  $_{ extstyle 0}$ the human
- Smooth surfaces reflect light in one direction.
- 8 9 10 Rough materials reflect light less than smooth materials
- Fireflies use the sense of sight to communicate with each other.
- 11 Ears of humans detect sound energy, while eyes detect light energy
- 12 Air is considered an example for transparent materials.
- 13 Wood is an opaque object.
- Air and water are transparent materials and you can see things through them





#### **Ouestion 04**

#### write scientific term for each of the following

	A device	(tool)	human	use	to	see	in	the	dark
--	----------	--------	-------	-----	----	-----	----	-----	------

- Objects that emit their own light
- A type of wild cats, that have eyes glow at nights.
- A body that appears lighted in the sky, but it is not considered as a source of light.
- (5) They are materials reflect the light rays in one direction
- 6 A type of surface that reflects light in different direction.
- 7) The object which allows light to pass through it
- (8) It is a visible form of energy that travels in form of waves
- The sense organ that can detect light energy
- (io) The materials which don't allow light to pass through.
- (1) It is a pattern that has meaning
- It is a code that use symbols in a pattern to give a specific meaning according to the arrangement of letter in a word
- 13 It is a code in form of sounds used to transfer information

night vision goggles Sources of light

Fishing cat

The moon

smooth and shiny material

Rough surface

transparent object

light

Eye

**Opaque object** 

Code

writing

language

#### **Question 05**

#### Give Reason for each of the following

- Fishing cat eyes glow in the dark because it has a mirror-like membrane at the back of its eyes which reflect light
- Nocturnal animals can see better at night.

Because of mirror-like membrane at the back of their eyes that reflect light falls on it

- Sun is considered a source of light

  Because it emits light
- Moon is not considered as a source of light Because it reflects sun light.
- We can see objects when light fall on it Because of light reflection







- The pupils of the nocturnal animals' eyes open wider than human's eyes

  To allow more light to enter their eyes
- 7 A mirror can reflect light better than a painted surface.

  Because the mirror is more smooth than the painted surface
- 8 You can see an object placed behind a glass cup
  Because glass is transparent object allow light to pass through
- When light fall on mirror it reflects in one direction
   Because mirror is a shiny and smooth surface
- A shadow is formed when light falls on an opaque object.

  Because opaque object doesn't allow light to pass through
- The human body forms a shadow when light falls on it.

  Because human body is opaque object don't allow light to pass through it
- Fireflies produce different pattern of flash light
  To warn off from predators or attract a mate (To communicate with each other)
- Fireflies produce a chemical reaction inside their bodies

  To light up and communicate with each other
- Humans use reading, writing and speaking
  To communicate with each other
- The symbols that are used in writing have specific pattern

  To give a specific meaning according to arrangement of letters

#### **Question 06**

#### What happens if?

- The fishing cat eye don't have mirror-like membrane
  They cannot see clearly at night
- 2 light fall on a book Light rays reflect to our eyes so we can see the book
- When the light falls on a smooth and shiny surface as mirror Light rays will reflect in one direction.
- The light falls on a rough surface.

  Light rays will reflect in different directions.





### science





- Light fall on transparent object as glass window
  Light will pass through it and I can see objects through it
- When firefly wants to attract a mate to reproduce?

  It produces a chemical reaction inside its body to light up
- When firefly beetles want to communicate It produces a chemical reaction inside its body to light up
- The traffic light becomes red while you are going to cross road

  The eyes send a message to brain brain process information (stop walking)

#### Question 07

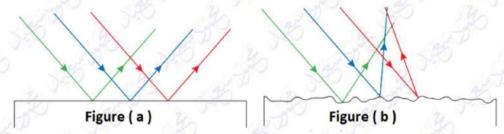
#### cross the odd word

- 1) Fire The moon The Sun The light bulb The moon
- (2) Wood Glass cup Book Wall Glass cup
- 3 Lamp Fire Moon Candle Moon
- Bats fireflies blind person's cane dolphins
   Fireflies
- (5) reading writing echolocation echolocation

#### Question 08

#### Answer the following questions

- Give one example for:
- A transparent material.
- (b) An opaque material. Human body
  (c) Objects that are considered as sources of light. Sun
- Look at the following figures, then answer the questions below:



- Which Surface represents reflection of light rays from mirror? Figure (a)
- **b** Light travel in <u>straight</u> lines



Air



# Question 01

# choose the corret answer



							3/0
1	When an ob	ject i	s in motion, thi	s mea	ans that its		changes
0	(a) color	<b>(b)</b>	shape	0	size	<b>d</b>	position
(2)	When you n	nove	something tow	ards	you, this rep	rese	nts
	pushing force	В	light energy	0	pulling force	<b>d</b>	sound energy.
(3)	All the following	g mot	ions occur by t	he ef	fect of pullin	g fo	rce, except
	a kicking a ba	all		<b>(b)</b>			S
	<b>6</b> wearing yo		-kc	<b>(d)</b>	opening a		ea arawer from the ground
	When you sit or			_			
9	chair			9		$\leq$	Mo James
	pulling you	upwa	ard	<b>(b)</b>	pulling you	dov	<u>vnward</u>
	© pushing yo	u upv	vard	<b>a</b>	pushing you	u do	wnward 🥠
(5)	Push or pull act	ions a	re considered a	as typ	oes of		
	a force	<b>b</b>	device	0	energy	<b>d</b>	adaptation
6	The force that p	oulls t	he objects dow	n to	ward the cen	ter o	of the earth is
7	a gravity		pushing	0		<b>a</b>	wind
7	You can see the	move	ement of the fo	llow	ing objects e	хсер	t the movement
100	a flying airplane	<b>b</b>	running horse	<b>©</b>	sea waves	<b>d</b>	the planet Earth
(8)	Objects need a	force	to move, this fo	orce i	s called		
7.00	a pushing only	b	pulling only	0	pushing and pulling	<b>d</b>	gravity only
9	When a ball sta	nds c	on the ground v	withc	out <mark>moving, t</mark>	he f	orces a <mark>cting on</mark> it
	a <u>balanced</u>	<b>(b)</b>	unbalanced	<b>©</b>	push it up	d	not equal
(10)	Which of the fo	llowi	ng will cause a	n obj	ect to move?		
58	a balanced forces	<b>(b)</b>	unbalanced forces	0	sound energy	<b>d</b>	light energy
(11)	All of the follow	ving a	ire examples of	mot	ion, <u>except</u>	g	- DE
J.	a running person	<b>b</b>	Falling ball	0	flying bird.	<b>d</b>	sleeping dog
(12)	When you thro	w a b	all in the air, th	e gra	vity will mak	e it r	noveupward
_	(a) upward	<b>(b)</b>	forward	<b>©</b>	downward	<b>d</b>	backward
		-9				0.0	



# science primary 4 - first term أ.محمود سعيد

#### **Ouestion 02**

### put (true) or (false)

0	Pushing force of gravity makes the ball falls down after throwing it in air.	×
2	The balanced forces cause the object to move	×
3	Hitting a tennis ball needs a pulling force	×
4	When a pen falls down from your hand, the acting force is the gravity	<b>V</b>
5	The stopping object can't move until a force act on it	0
6	Gravitational force is an upward pulling force	×
7	When the position of the body changes from a fixed point, the body moves	% <b>Y</b>
(8)	Unbalanced forces cause a change in the object position	1

### Question 03

complete the following sentences using the word between brackets

#### (balanced – unbalanced – gravity – motion)

- The unbalanced forces cause the object to move.
- Motion is any change in the position of an object relative to a fixed starting point
- When playing pulling a rope game, if each team pulls the rope with equal force, the forces are balanced
- The force that causes falling objects toward the Earth is gravity force. 4

#### **Question 04**

### write scientific term for each of the following

- A force that you make to move an object away from you
- One of the fastest and most powerful trucks in the world
- It is a push or pull that is applied to an object cause it to change its position
- The force that pulls objects toward the center of the earth
- A change in the position of an object relative to a fixed starting point

انتهت الأسئلة مع أطيب الامنيات بالنجاح والتوفيق

push force

shockwave trunk

force

gravity

**Motion** 

جميع اسئلة الشيت اسئلة رسمية من امتحانات المحافظات يمكنكم متابعه الحل من خلال قناه كارتون ساينس







#### **Exercises on Concept 1.3**

#### Q.1: Complete the following statements from the brackets:

1 - Humans see in presence of ...... (sound - light) 2- A person sees through dim light..... (easily - hard) 3 - All cats have a membrane at the back of their eyes that acts as a ..... (glasses - mirror) 4- A .....has an eye that helps it to catch its food at night. (dolphin - cat) 5- Cats see at night because ...... is behind their eyes. (Transparent mat - colored lenses) 6 - ..... are from light sources that work with electricity. (Sun - Lamps) 7- The eyes of nocturnal animals are..... than the eyes of humans. (bigger - smaller) 8- The tarsier monkey is ......animal. (big - small) 9 - The eyes of the tarsier monkey..... any light around it. (collect- break up) 10 - Light is a form of ...... (strength - energy) 11-Human eye..... (contain a tapetum lucidum - does not contain a tapetum lucidum ) 12 .....bodies form shadow. (Transparent - Opaque) 13 - .....is from transparent objects. (Iron - Glass) 14 - .....is from dark objects. (Water - Wood) 15 - The way of light reflection depends on ...... (surface smoothness - surface area) 16 - A mirror is considered a shiny surface, because it ..... (radiates light - reflects light) 17 - Light does not pass through the...... material. (transparent - opaque) 18 - The light is scattered in different directions, when it falls on a...(mirror - painted wall) Q2: Put  $(\checkmark)$  in front of the correct statement, and (X) in front of the incorrect statement: 1-The eye is the sense organ responsible for seeing things. () 2 - Light falls on objects and then is reflected back on the eye. () 3- The moon is not a source of light. () 4- Humans need light source to see. ()

ندم مجانا من قناة مستر ساينس على اليوتيوب أ. شريف الهواري 01013666614
5- The tapetum lucidum in the eyes of animals, help in keeping their lives. ()
6 - The eyes of the tarsier monkey move in all directions. ()
7- The tarsier monkey appears in its environment at night. ()
8- The tarsier monkey is a small animal. ( )
9 - The tarsier monkey eats plants. ()
10 - Iron is a transparent body, that does not allow light to pass through it. ()
11-Nocturnal animals have eyes that are smaller than the human eye. ()
12 - If I cannot see my face clearly on a surface, it means that it is a smooth, shiny surface(
Q3: Choose the correct answer:
1- The external effect, that affects the eye and causes a sense of vision is energy.
light
vocal
electrical
thermal
2- The organ responsible for interpreting what the eye sees is
spine.
the brain.
diaphragm.
small intestine.
3- All of the following are sources of light except
the flashlight.
candle.
eye.
stars.

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4 - You can see your image in the mirror because of light ......

reflection.

shadow.

scattering.

refraction.

5- We can see objects in the presence of light because.....

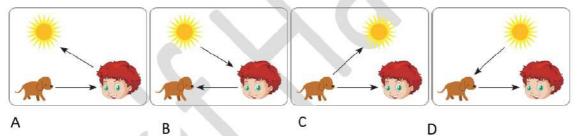
objects reflect light rays back to the eye.

objects are transparent.

the eye sends rays to the body.

objects are dark.

6-Ahmed is studying how the eye can see objects choose the correct figure that represents the conclusion that Ahmed reached to:



7-Cats have in the back of their eyes a transparent membrane, that acts as.....

earphone.

eyeglasses.

lens.

mirror.

8 - The tarsier monkey is characterized, by the ability to rotate its head at an angle equal ......degrees.

270

180

120

90

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9 - The tarsier monkey is similar toin large eyes.
fennec fox
polar bear
fishing cat
owl
10- Which of the following objects allows light to pass through?
Iron
Air
Paper
Stones
11is a material that reflects light well:
A mirror
Paper
A wall
Tron
12-The arrows in the following figures represent light rays. Which figure shows how light i reflected on a mirror?
A B C D
13-What happens to light when it falls on a rough surface? It is
reflected regularly.
reflected irregularly.
scattered.
absorbed.

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14 - The following ma	nterials are opaque except	**	
iron			
wood			
carton paper			
water			
15 - Which of the follo	owing is a source of light?		1/20
A mirror			
Fire			
The eyes			
The moon			
16is used to bounces back.	to describe light, when it fal	ls on a smooth :	and shiny surface and then
Wave length			
Reflection			
Energy			
The shadow	1		

#### Q4: Give reason for:

- 1-Glass is a transparent material.
- 2- Wood is an opaque material.
- 3- A shadow is formed for opaque objects.

### Q5: Write the scientific term:

- 1 The object that emits its own light.
- 2- An opaque body that reflects the sunlight falling on it, so we see it shining.
- 3- A thin layer in the back of the eye, that reflects light like a mirror.
- 4- Returning of light when it falls on a reflective surface.
- 5- Objects that form shadow, when light falls on them.

					-
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6- Objects that do not have a shado	ow.				
7- Objects that do not allow light to	pass through th	nem.			
8- Objects that allow light to pass t	hrough.				

9 - The surface that reflects the light falling on it in one direction.

10 - The surface on which the incident light is scattered in different directions.

### Q.6What happens when...?

- 1-light falls on an opaque object.
- 2 light falls on a transparent material.
- 3-light falls on a smooth surface.

### Q.7 Match A with B:

A	В
1-A material that allows light to pass through.	( )Brick wall.
2- An object that reflects light in one direction.	( ) The shadow.
3- It is formed when light falls on an opaque object.	() Air.
4 -An object that scatters light in different directions	( ) Woman.
	( )The transparent layer

## Selected questions from exams on the concept 1.3

### Q.1 Choose the correct answer:

4		00 /			290	4.1	•	
200	energy	attects 1	he sensorv	recer	ofors in	the eve	calising a	sense of vision.
•	DJ	MILECUS .	are semsor y		JUL 5 III	the cyc	,	Selise of Tistoil.

Light

Sound

Magnetic

Kinetic

01013666614	قدم مجانا من قناة مستر ساينس على اليوتيوب أ. شريف الهواري
2- What is the organ responsible for interpretation	of, what we see with our eyes?
The brain	
Stomach	
Esophagus	
Lungs	
3- All of the following are sources of light except	
the flashlight	
fire	
the eye	
the sun	
4- The transparent layer is found in all of the follow	ving except:
humans	
cats	
dogs	
horses	
5is from reflective materials of lig	ght.
Plastic	
The wood	
Paper	
Mirror	
6- Which of the following allows light to pass through	gh?
Wood	
Glass	
The moon	
A rock	

قدم مجانا من قناة مستر ساينس على اليوتيوب أ. شريف الهواري 01013666614
7phenomenon helps you to see yourself in the mirror?
Reflection
Short rays
Beam length
Refraction
8is a surface that regularly reflects light
A mirror
A carton
Glass
A wall
Q.2 Put $(\checkmark)$ in front of the correct statement, and $(X)$ in front of the incorrect statement:
1-The ear is the sensory organ responsible for seeing things. ( )
2 - The moon is a source of light. ()
3 - If I can see my face clearly on a surface, this means that it is a smooth, shiny surface. ( )
4- Wood is a transparent surface that allows light to pass through it. ()
5- Nocturnal animals have eyes, that are larger than the human eye. ()
6 - Some animals can see at night, such as a wild cat. ()
7- A person has a transparent layer in his eye, to help in seeing at night. ()
8- Seeing with our own eyes is a means, that helps us gather information about the environment around us. ( )
Q.3 Choose the correct answer:
1is from opaque bodies. (Carton - Glass)
2- The eye sends nerve messages to the nerves. (brain - spinal cord)
3 - Cats' eyes adapt to night vision, due to the presence ofbehind their eyes.
(tapetum lucidum - wide lenses)
4 - We can see an object when light falls on it, then iton eyes (refracts- is reflected)

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5surfaces reflect light rays in different directions. (Smooth - Rough)
6 is an example of an object, that allows light to pass through it. (A lens - Paper)
7 is formed when light is absorbed by an opaque object.(Transparent – Shadow)
Q.3 Answer the following questions:
1-Your friend wanted to prevent the light from entering his room.
Suggest some materials he could use on the window, to prevent the light from entering the room.
2- Complete from the opposite figure:
- Light falls on the then is reflected on the eye
- Eyes the message to, that interpretes and translates it, so we see the apple.
3 - In the opposite fig. Look at the path of the light rays:
- Which of the two objects is opaque Which one is transparent
4 - I saw an eye shining in the dark. In your opinion, what is this animal?
5- Which of the following two figures, represents the reflection of light rays from a wood
A B

### لتحصل على الإجابة تابع الفيديو في قناة مستر ساينس على اليوتيوب يوم السبت 25-11-2023

01013666614

مقدم مجانا من قناة مستر ساينس على اليوتيوب أ. شريف الهواري

## **Exercises on Concept 2.1**



## 1 Choose the correct answer

1. The trucks engines	areairplanes.	6			
a. Less powerful than b.as powerful as c. more powerful than					
2. By increasing numb	er of fire extinguish	ners, the air comes o	out increases, so		
the vehicle speed					
a. increase	b. decrease	c. remains consta	int		
3. What force do you	use to kick a ball wi	ith your leg?			
a. Pull.	b. Push.	c. Sound.	d. Light.		
4. When an object is i	n motion, this mea	ns that it's ch	anges.		
a. shape	b. size	c. position	d. color		
5. All of the following	are examples of mo	otion except			
a. a running person.		b. a ball travelling	g through the air.		
c. a flying bird.  d. a sleeping dog.  6. Gravity is a force that					
a. pushes objects dowr	n toward the Earth.				
b. pulls objects down t	oward the Earth.				
c. pushes objects toward the sky.					
d. pulls objects toward the sky.					
7. When you push the pedals of the bicycle, you will					
a. move in the same direction b. move in the opposite direction c. not move					

	01013666614	تيوب أ. شريف الهواري	حانا من قناة مستر ساينس على اليو
8. An object stops moving	when friction force bet	tween touching s	urface
a. increase	b. decrease	c. No correct ar	nswer
9. The force needed to kid	ck a big ballthe for	ce needed to kick	a small ball.
a.is larger than	b.is smaller than	c. equal	
10. The friction force bety thedirection of t	-5 M3 K3 SWAR	ace, its effects ac	ts in
a. opposite	b. same	c. No correct ar	nswer
11. The force that occurs	when an object rubs ag	ainst another obj	ect is called
a. friction.	b. gravity.	c. push.	d. pull
12. To stop a moving obj	ect we can apply a	against it.	
a. pushing force	c. sound en	ergy	
b gravity force	d. light ene	rgy	
②Write the scientific	term:		
1. It is a push or pull that change its position.	t is applied to an object	causes it to	()
2. It is a force that is exe	rted when objects rub a	ngainst each othe	er ()
3. It is a force that slows		25 26	()
4. The change of the pos	ition of the body from o	one place to	()
5. The ability to do a wor	rk.		()
6. The measure of energ moved over a distance		hen an object is	()
7. The force that oppose	s the motion of an obje	ct	()
8. A force that you make	()		
9. A force that you make	()		
10. One of the fastest an	·	in the world.	()
11. Two <b>equal</b> forces in 2	2 different directions		()

م مجانا من قناة مستر ساينس على اليوتيوب أ. شريف الهواري 01013666614
12. Two <b>unequal</b> forces in two different directions ()
③Give a reason:
1. The Shockwave truck is faster than the normal truck.
Because it has 3 jet engine
<ol><li>Engineers use parachutes in the Shockwave truck designs.</li></ol>
To decrease the speed of the truck and stop it.
3. When two equal pushing forces act on an object in opposite directions, the object
doesn't move.
Because the forces are balanced
4. If you let a pen out of your hand, it falls to the ground
Due to the gravity
5. When you stop pedaling during the movement of your bicycle, it slows down until it stops.
Due to the friction force.
<b>4</b> Put (√) or (×)
<ul><li>1- When a balanced force is applied on an object, it will not move. ( )</li><li>2- By increasing the force applied in an object, the distance of motion will decrease.</li><li>( )</li></ul>
3- Friction force must exist to move bodies ( ) 4- Lifting a book upward needs more energy than pushing a truck. ( )
5- If you try to open a door but you cannot open it, this means that work is done.
4)Complete the following:
1. We need ato move on object.
2. When Ali kicked the ball, it moved away from his starting position and
started to slow down until it stopped completely due to the effect of a
force

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3. When you press the brakes of the bike, it is on example of the force
4 Falling the book from your hand on the ground is consideredforce.
5. If an unbalanced forces are applied on an object, the object will
6. The motion of a flying eaglebe seen.
7. When we rub our hands, we feel
8. Small truck can move distance than larger truck.
9is an invisible force that holds us to the Earth's surface.
10. When you lift up an object from the ground, there are two forces act on it,
which are theforce of your hand andforce of the gravity.

## 4 Correct the underline word:

- By increasing the speed of a moving cart, the distance that it moves will decrease.
- 2. Moving an object away from you represents a pulling force.
- 3. Moving an object towards you represents a <u>pushing</u> force.
- 4. The <u>balanced</u> forces cause the object to move

لتحصل على الإجابة تابع الفيديو في قناة مستر ساينس على اليوتيوب يوم السبت 2023-11-25



# Give reason

- 1- The fishing cat eyes seem to glow in the dark Because it has a mirror like membrane on the back of its eyes which bounces off light
- 2- Candle is considered as a source of light Because it gives off their own light
- 3- We can see the moon shining at night although it is not a source of light
  - Because it does not give off their own light, but it reflects light
- 4- Nocturnal animals can see better than humans at night Because they have bigger eyes and wider pupils which are more sensitive to light than human
- 5- Shadow of an opaque body is formed when light falls on it
  Because the opaque body does not allow light to pass through
- 6- you can see an object placed behind a glass cup

  Because transparent materials allow light to pass through
- 7- A mirror can reflect light better than a painted surface

  Because the mirror is more smooth than the painted surface
- 8- Humans receive and send information through speaking, writing, and reading
  - To communicate with each other
- 9- Fireflies use different patterns of flashlight to communicate with each other
  - To warn off their predators or attract a mate





- 10- Fireflies produce a chemical reaction inside their bodies
  To light up their bodies and communicate with each other
- 11- The symbols that are used in writing have a specific pattern

  To give a specific meaning according to the arrangement of letters in a word
- 12- We use the expressions on faces during talking with each other

  To help people predict our feelings
- 13- The shockwave truck is faster than the normal truck Because it has three jet engines
- 14- Engineers use parachutes in the shockwave truck designs
  To stop the shockwave truck
- 15- By increasing the number of fire extinguishers, the distance that the cart moves will increase

  Because by increasing the number of fire extinguishers, the speed of the cart will increase
- 16- When you kick a ball laying on the ground, it moves

  Because of the pushing force of your leg on it
- 17- When two equal pushing forces act on an object in opposite directions, the object does not move

  Because the two forces are balanced so the object doesn't move
- 18- If you let a pen out of your hand, it falls to the ground

  Because of the pulling force of gravity down toward the Earth
- 19- When your friend catches a ball that is thrown in the air, the motion of the ball is stoppedBecause of the pushing force of his hand





# What happens if/to

- 1- The mirror like membrane in the fishing cats' eyes is damaged Fishing cat cannot see or hunt at night
- 2- the moon cannot reflect light It appears dark and we cannot see it
- 3- you place an opaque object between a light source and a wall Light cannot pass through the opaque object to the wall, so shadow of the object is formed on the wall
- 4- light falls on a transparent body such as a glass window Light passes through the glass window
- 5- Light falls on a rough surface according to the direction of the reflected light rays
   Light rays are reflected in different directions
- 6- A person makes flashing pattern by LED lights near to a group of fireflies
  - The fireflies imitate the flashing pattern that the person made
- 7- A firefly wants to attract a mate to reproduce
  It produces a chemical reaction inside its body to light up and
  attract a mate
- 8- The traffic light becomes red while you are going to cross the road
  - the eyes send a message to the brain to stop walking and not to cross the road
- 9- You kick a stopped ball on the ground It moves due to the pushing force





10- Engineers placed jet engines inside a normal truck instead of its normal engine

It turns to shockwave and move much faster

- 11- The shockwave driver opens the parachutes
  It will stop gradually
- 12- The pulling force of the two teams are equal in the tug of war game

The rope will not move

13- The pulling force of the two teams in tug of war game are not equal

The rope will move towards the team of greater pulling force

14- You let your toy out of your hand
It will fall down due to the pulling force of gravity





## **Question 1: choose the correct answer**

1-	When you move something toward you, this represents
a)	Pushing force
b)	Pulling force
c)	Light energy
d)	Sound energy
2-	Displaying light is a type of communication that is found in
a)	Plants only
b)	Plants and humans
c)	Animal and humans
100	Animals only
3-	all the following are examples of motion except
-	A running person
•	A ball traveling through the air
-	A flying bird
d)	A sleeping dog
4-	Reading and writing are common types of communication in the
	world
•	Humans
•	Animals
c)	Birds
d)	Plants
5-	When an object is in motion, this means that its
	<mark>changes</mark>
•	Color
	Shape
c)	Size





d) Position

6-	If there is nothing to stop the movement of an object, this object
	will

- a) Stay in motion
- b) Suddenly stop
- c) Stop after few minutes
- d) Stop after few seconds
- 7- Push or pull actions are considered as types of ......
  - a) Force
  - b) Device
  - c) Energy
  - d) Adaptation
- 8- Animals can communicate with each other through ..........
- a) Sounds and lights
- b) Talking
- c) Reading
- d) Writing
- 9- which of the following allows light to pass through it
- a) a rock
- b) moon
- c) fire
- d) Glass
- 10- which of the following is a source of light
  - a) eye
  - b) moon
  - c) fire
  - d) mirror





11- raising the thumb up or low	ver it down is a kind of
a) colors	
b) codes	
c) waves	
d) lights	
12-when a light falls on a dark su	rface,

- a) The surface absorbs the light
- b) Light passes through it
- c) The light is refracted
- d) Nothing happens

## 13- all the following are examples of pulling force except

- a) Kicking a ball
- b) Pulling the rope
- c) Opening the desk's drawer
- d) Lifting up your bag

## 14-all the following represents the pushing force except

- a) Kick a ball
- b) Press on electrical switch
- c) Close the desk's drawer
- d) Lifting up a bag

15- the organ responsible for the sight sense is ......

- a) The ear
- b) The tongue
- c) The nose
- d) The eye





16- the force th	at pulls the objects down toward the center of the Earth
is	MA BUELLY
<ul><li>a) Gravity</li><li>b) Pushing</li><li>c) Water</li><li>d) Wind</li></ul>	
17- <mark>objects need</mark>	I force to move, this force is represented in
<ul><li>a) Pushing or</li><li>b) Pulling onl</li><li>c) Pushing ar</li><li>d) The Earth</li></ul>	y d pulling together
18- <mark>when a ball</mark>	stands on the ground without moving, the forces acting
on it are	AD BHEMY
<ul> <li>a) Balanced</li> <li>b) Un balance</li> <li>c) Push it up</li> <li>d) Not equal</li> <li>19- from the op</li> </ul>	
a) Cartoon b) Glass c) air	MR BRAIN
20-from the org	ans that we can use to send or receive the code
a) Heart b) Ear c) Leg	





21- which of the following or different objects	rgans can work together for seeing
<ul><li>a) Nose and brain</li><li>b) Eyes and brain</li><li>c) Ears and brain</li></ul>	
22- the eyes of fishing cat glo	ow in the dark because their <mark>eyes</mark>

- a) Emit their own light
- b) Can reflect light
- c) Are small in size
- d) Have narrow pupils
- 23- when light rays hit an object, all the following are correct except
  - a) Some of the rays are absorbed by the object
  - b) Some of the rays are bounced off the object
  - c) Some of the rays may go through the objects
  - d) All the rays are absorbed by the object
- 24- all the following are forms of codes except ......
  - a) Thumb up and down
  - b) Face expressions
  - c) Writing
  - d) Swimming

## Question 2: put true or false

- 1- Cats have excellent night vision while snakes and bats are not ( )
- 2- The main difference between pulling and pushing forces is the direction of the force ( )
- 3- At night, cats' eyes look like small lighted lamps ( )
- 4- Unbalanced forces keep an object in its place without moving ( )





5-	The moon is considered as a light source ( )
6-	in a complete dark room, you can use the sense of touching,
	tasting, smelling, and hearing only ( )
7-	Wood is a transparent object that allows light to pass through it (
8-	The seesaw moves up and down because the forces acting on it
	are unbalances ( )
9-	Some animals can see at night ( )
10-	When the position of a body changes according to a fixed point,
	the body moves ( )
11-	Light travels in straight lines ( )
12-	Red and green traffic lights are considered codes ( )
13-	Gravity pulls objects towards the center of the Earth (
14-	The brain is responsible for processing information ( )
15-	Both humans and animal don't need a source of light to see (
16-	Speaking is the only way to communicate with people ( )

## **Question 3: What happens if**

- 1- Light falls on a mirror that has few cracks
- 2- You are standing on the ground, and you let a ball out of your hand
- 3- The mirror like membrane of a fishing cat is not present
- 4- Light falls on a transparent body such as a glass window
- 5- A fire fly wants to attract a mate

## **Question 4: complete the following sentences**

- 1- The different languages are considered as ......
- 2- The eye sends messages to ..... through the nerves
- 3- The eyes of fishing cats have a mirror like membrane bounces off light and this is considered ...... adaptation
- 4- Light travels in ...... lines





5- Fireflies beetles use the sense of ...... to communicate with each other

### Question 5: write the scientific term

- 1- It is the force that pulls objects toward the center of the Earth( )
- 2- A type of surface that reflects light in different directions when the light falls on it ( )
- 3- A body that appears lighted in the sky but not a source of light( )
- 4- The visible form of energy that enable us to see (
- 5- Materials that allow light to pass through ( )
- 6- Sense organs that detect light energy ( )

## Question 6: Give reason for the following

- 1- when your friend catches a ball that is thrown in the air, the movement of the ball is stopped
- 2- A mirror can reflect the light better than a painted surface.
- 3- Candle is considered as a source of light
- 4- Fireflies produce a chemical reaction inside their bodies

## **Question 7: Cross out the odd word**

- 1- The sun- the moon- fire- candle
- 2- Bats- fireflies- blind person's cane- dolphins
- 3- Guitar flashlight-radio alarm bell





## **Model answers**

## Question 1: choose the correct answer

- 1- When you move something toward you, this represents ......
  - a) Pushing force
  - b) Pulling force
- c) Light energy
- d) Sound energy
- 2- Displaying light is a type of communication that is found in
- a) Plants only
- b) Plants and humans
- c) Animal and humans
- d) Animals only
- 3- all the following are examples of motion except.....
  - a) A running person
  - b) A ball traveling through the air
- c) A flying bird
- d) A sleeping dog
- 4- Reading and writing are common types of communication in the ...... world
- a) Humans
- b) Animals
- c) Birds
- d) Plants





5-	When an object is in motion, this means that its
	<mark>changes</mark>
a)	Color
b)	Shape
c)	Size
d)	Position
<mark>6-</mark>	f there is nothing to stop the movement of an object, this object
	will
a)	Stay in motion
b)	Suddenly stop
c)	Stop after few minutes
d)	Stop after few seconds
7-	Push or pull actions are considered as types of
a)	Force
b)	Device
c)	Energy
d)	A <mark>da</mark> ptation
8-	Animals can communicate with each other through
a)	Sounds and lights
b)	Talking Talking
c)	Reading
d)	Writing
9-	which of the following allows light to pass through it
a)	a rock
h)	moon





c) fire

d) Glass

- 10- which of the following is a source of light
  - a) eye
  - b) moon
  - c) fire
  - d) mirror
- 11- raising the thumb up or lower it down is a kind of
  - a) colors
  - b) codes
  - c) waves
  - d) lights
- 12-when a light falls on a dark surface, .....
  - a) The surface absorbs the light
  - b) Light passes through it
  - c) The light is refracted
  - d) Nothing happens
- 13- all the following are examples of pulling force except
  - a) Kicking a ball
  - b) Pulling the rope
  - c) Opening the desk's drawer
  - d) Lifting up your bag
- 14-all the following represents the pushing force except
  - a) Kick a ball
  - b) Press on electrical switch
  - c) Close the desk's drawer
  - d) Lifting up a bag





15- the organ responsible for t	ne sight sense is
<ul><li>a) The ear</li><li>b) The tongue</li><li>c) The nose</li><li>d) The eye</li></ul>	
16- the force that pulls the obj	ects down toward the center of the Earth
is	
<ul><li>a) Gravity</li><li>b) Pushing</li><li>c) Water</li><li>d) Wind</li></ul>	
17- objects need force to move	e, this force is represented in
<ul><li>a) Pushing only</li><li>b) Pulling only</li><li>c) Pushing and pulling toge</li><li>d) The Earth gravity only</li></ul>	ther
18- when a ball stands on the g	round without moving, the forces acting
on it are	
<ul><li>a) Balanced</li><li>b) Unbalanced</li><li>c) Push it up</li><li>d) Not equal</li></ul>	
19- from the opaque objects	
a) Cartoon b) Glass c) Air	





20-from the organs that we can use to send or receive the code	
a) Heart  b) Ear  c) Leg	
21- which of the following organs can work together for seeing different objects	
<ul><li>a) Nose and brain</li><li>b) Eyes and brain</li><li>c) Ears and brain</li></ul>	
22- the eyes of fishing cat glow in the dark because their eyes	
<ul> <li>a) Emit their own light</li> <li>b) Can reflect light</li> <li>c) Are small in size</li> <li>d) Have narrow pupils</li> </ul>	
23- when light rays hit an object, all the following are correct ex	cept
<ul> <li>a) Some of the rays are absorbed by the object</li> <li>b) Some of the rays are bounced off the object</li> <li>c) Some of the rays may go through the objects</li> <li>d) All the rays are absorbed by the object</li> </ul>	
24- all the following are forms of codes except	
<ul><li>a) Thumb up and down</li><li>b) Face expressions</li><li>c) Writing</li></ul>	





d) Swimming

## Question 2: put true or false

- 1- Cats have excellent night vision while bats have not (T)
- 2- The main difference between pulling and pushing forces is the direction of the force (T)
- 3- At night, cats' eyes look like small lighted lamps (T)
- 4- Unbalanced forces keep an object in its place without moving (F)
- 5- The moon is considered as a light source (F)
- 6- in a complete dark room, you can use the sense of touching, tasting, smelling, and hearing only (T)
- 7- Wood is a transparent object that allows light to pass through it (F)
- 8- The seesaw moves up and down because the forces acting on it are unbalanced ( T )
- 9- Some animals can see at night (T)
- 10- When the position of a body changes according to a fixed point, the body moves (T )
- 11- Light travels in straight lines (T)
- 12- Red and green traffic lights are considered codes ( T )
- 13- Gravity pulls objects towards the center of the Earth (T)
- 14- The brain is responsible for processing information (T)
- 15- Both humans and animal don't need a source of light to see (F)
- 16- Speaking is the only way to communicate with people (F)





## **Question 3: What happens if**

1- Light falls on a mirror that has few cracks

Light rays are reflected in different directions

2- You are standing on the ground, and you let a ball out of your hand

It will fall down due to the pulling force of gravity

- 3- The mirror like membrane of a fishing cat is not present Fishing cat cannot see or hunt at night
- 4- Light falls on a transparent body such as a glass window Light passes through the glass window
- 5- A firefly wants to attract a mate
  It produces a chemical reaction inside its body to light up
  and attract a mate

## **Question 4: complete the following sentences**

- 1- The different languages are considered as ...Codes......
- 2- The eye sends messages to ..Brain..... through the nerves
- 3- The eyes of fishing cats have a mirror like membrane bounces off light and this is considered ......Structural...... adaptation
- 4- Light travels in .....Straight..... lines
- 5- Fireflies beetles use the sense of ... **Sight......** to communicate with each other





### Question 5: write the scientific term

- 1- It is the force that pulls objects toward the center of the Earth ( Gravity )
- 2- A type of surface that reflects light in different directions when the light falls on it ( Rough surface )
- 3- A body that appears lighted in the sky but not a source of light ( Moon )
- 4- The visible form of energy that enable us to see (Light energy)
- 5- Materials that allow light to pass through (transparent materials)
- 6- Sense organs that detect light energy (Eyes )

## Question 6: Give reason for the following

- 1- when your friend catches a ball that is thrown in the air, the movement of the ball is stopped
  Because of the pushing force of his hand
- 2- A mirror can reflect the light better than a painted surface.

  Because the mirror is more smooth than the painted surface.
- 3- Candle is considered as a source of light Because it gives off their own light
- 4- Fireflies produce a chemical reaction inside their bodies

  To light up their bodies and communicate with each other

### Question 7: Cross out the odd word

- 1- The sun- the moon- fire- candle
- 2- Bats- fireflies- blind person's cane- dolphins
- 3- Guitar flashlight- radio alarm bell







# **November Revision**

## \* (1) Write the scientific term:

## Mr. Ahmed Elbasha

1)	It is a push or pull that is applied to an object causes it to change its position.	()
2)	The force you can do to move an object away from you	(,)
3)	The force you can do to bring an object closer to you.	()
4)	A change in the position of an object relative to a fixed starting point	()
5)	The force that pulls objects down toward the Earth	()
6)	It is a force that is exerted when objects rub against each other	()
7)	It is a force that slows down the motion of moving objects	()
8)	The organ that is affected by light and responsible for sight	()
9)	The organ that is responsible for processing information received by eyes, to know and recognize the surroundings	()
10)	The visible form of energy that enables us to see	()
11)	Materials that allow light to pass through.	()
12)	Materials that we cannot see through it.	()
13)	A type of surfaces that reflects light in different directions	()
14)	Sense organ that can detect sound energy	()

## **\***(2) Choose the right answer:

1.	Light travels in li	nes in the f	form of waves.		
	a. curved b. zigzag		c. straight	d. circula	r
2.	Sense organs collect informati understanding.	on and sen	d signals to	for <b>J</b>	processing and
	a. hands b. legs		c. brain	d.	stomach
3.	All of the following are forms	of codes, ex	cept		
	a. thumb up and down hands.		b. faces expressi	ons.	100
	c. writing.		d. swimming.		
4.	Reading and writing are comm	non types o	of communication	in	world.
	a. humans	b. animals	c. birds	- 7	d. plants
5.	Push or pull actions are consid	lered as typ	pes of		
	a. force.	b. device.	c. energy.		d. adaptation.
6.	When you move something to	ward you, t	his represents		
A = 1	a. pushing force. b. ligh	t energy.	c. pulling	force.	d. sound energy.
7.	Parachutes are used in the Sho	ockwave tr	uck to		
	a. increase its speed.		b. decrease its sp	eed.	
	c. keep its speed as it is.	0	d. change its dire	ection.	
8.	You can see the movement of	the followin	ng objects, except	the movem	nent of
	a. a flying airplane.		b. a running hors	se.	
	c. sea waves.		d. the planet Ear	th.	
9.	Gravity is a force that				
	a. pushes objects down toward t	he Earth.	b. pulls objects d	lown toward	I the Earth.
	c. pushes objects toward the sky		d. pulls objects to	oward the sl	cy.
10	.To stop a moving object we ca	n apply a	again	st it.	
	a. pushing force b. grav	ity force	c. sound energy	d.	light energy
11	.Which of the following organs	are workii	ng together for se	eing differ	ent objects?
	a. Nose and brain.		b. Eyes and brain	n.	
	c. Ears and brain.		d. Tongue and br	rain.	
12. The character that helps the fishing cat to hunt a prey at night, is its ability					
	a. to see the sunlight.		b. of poor night	vision.	
	c. to digest its prey easily.		d. of excellent ni	ght vision.	

13.In the fishing cat's eyes, the mirror-like membrane is an important structure because it helps them to				
a. sleep		b. breathe		
c. keep their body w	arm	d. hunt a prey		
14. The energy which i	must present to make	our eyes able to see the o	objects around us is	
energy	e company of the comp	SP-00 101		
a. sound	b. electric	c. light	d. magnetic	
15. Which of the follow	ving is not a reason for	r fireflies to produce a fla	ash light?	
a. To attract a mate.		b. For communication.		
c. To warn off from	predators.	d. To hear in the dark.	6	
16.People can use the	following ways to com	municate, except		
a. reading. b	o. writing. c. sp	eaking. d. fly	ing.	
17.A shadow of an obj	ect is formed because			
a. light can pass thro	ough the object.	b. light cannot pass thro	ugh the object.	
c. this object is made	e of glass.	d. this object is transpare	ent.	
18.All of the following	are transparent objec	ets, except		
a. glass.	b. water.	c. paper.	d. air.	
19.Light rays can pass	through lenses, so the	ey are made up of		
a. wood.	b. paper.	c. glass.	d. metal.	
20.All objects around	us can move by the ef	fect of		
a. pushing force only	у.	b. pulling force only.		
c. pushing and pulli	ng forces.	d. sound and light energ	ies.	
21. When an object is i	n motion, this means	that it's cha	nges.	
a. color	. shape	c. size	d. position	
22. What makes a ball in the air fall down to the ground?				
a. Friction force.		b. Gravity force.		
c. Sound energy.		d. Light energy.		
23. Which of the following will cause an object to move?				
a. Balanced forces.		b. Unbalanced forces.		
c. Sound energy.		d. Light energy.		
24. The force that occurs when an object rubs against another object is called				
a. friction.	b. gravity.	c. push.	d. pull.	

*(3)	Put	()	or	( X )	١
			J. 500-900.00		y.

1.	Friction force always slows down or stops the motion of moving objects.	(	)
2.	The motion of an object on the ground is affected by a friction force.	(	)
3.	Hard push causes an object to travel for a longer distance.	(	)
4.	Fireflies produce flash lights to warn off from predators.	(	_)
5.	A cell phone is a device that is used in communication between humans.		
6.	A car can move faster than a bicycle.	(	3
7.	A normal truck can move faster than a jet airplane.	(	)
8.	A normal truck is slower than the Shockwave truck.	(	)
9.	Parachutes are used to slow down the speed of the Shockwave truck quickly.	(	)
10	.By increasing the speed of a moving cart, the distance that it moves will decrease.	(	)
11	Rough objects tend to reflect light better than smooth objects.	(	)
12	.Mirror reflects most of incoming light rays that fall on it.	(	)
13	.If a person moves a table through a distance, there is a work done.	(	)
14	.Hitting a tennis ball needs a pulling force	(	)
15	.The rotation of the Earth around the Sun is easy to be seen.	(	)
16	.Unbalanced forces keep an object in its place without moving.	(	)
17	.Unbalanced forces cause a change in the object position.	(	)
18	.Cats have excellent night vision, while humans are not.	(	)
19	.Both of the moon and the cat's eyes reflect the light that falling on them.	(	)
20	.The moon is not considered as a light source.	(	)
21	.Animals communicate with each other by using different senses.	(	)

<b>*</b> (4) (	Comp	lete the	following	sentences:
----------------	------	----------	-----------	------------

1.	If you push each of a small ball and a big ball with the same force, the small ball moves a
	distance than the big ball.
2.	The speed of a ball moving on the ground decreases gradually until it stops due to the
	effect of force.
3.	The fishing cat can hunt at night depending on the excellent sense of
4.	The eyes of fishing cat have a mirror-like membrane bounces off the light, and this is
	considered as a adaptation.
5.	To see things clearly at night, humans need a source of
6.	Humans can communicate with each other where ears of human detect
	energy and eyes of human detect energy.
7.	Fireflies use energy in their communication.
8.	If we put more than one fire extinguisher to a cart, so the of this cart will
	increase.
9.	When you throw a ball up in the air, it starts to fall down again toward the ground due to
	the effect of pulling force of
10	.To stop the rolling ball on the ground, you need to exert a equal to that
	exerted by the ball in the opposite direction.
11	Objects that light can't pass through are called, while objects that allow
	light to pass through are called
12	A tree forms a shadow as it is an object that doesn't allow to pass through
13	.Watching TV is a type of communication that use the senses of

## **\***(5) Correct the underline

	Moving an object away from you represents a <b>pulling</b> force	()
2.	Moving an object toward you represents a <b>pushing</b> force	()
3.	The <b>balanced</b> forces cause the object to move	()
4.	Changing the position of an object relative to a fixed point is known as <b>force</b>	()
5.	Moving object stops when a force of the same amount is applied to it in the <b>same</b> direction of its motion	()
6.	If a car runs out of fuel, its speed <u>increases</u>	()
7.	Opaque materials include water, glass, air and lenses.	()
8.	<b>Rough</b> objects reflect light rays in one direction at the same angle at which they struck the object	()
9.	The energy that helps humans and animals see, is the <b>sound</b> energy.	()
10.	The <b>moon</b> is one of the light sources	()
11.	<b>Sound</b> is a visible form of energy that bounces off objects into our eyes.	()
12.	Eyes send messages to the <u>heart</u> for processing information	()

	<b>*</b> (6) <u>Give reasons for:</u>
1.	Fireflies use different patterns of flashlights to communicate with each other.
2.	The fishing cat's eyes seem to glow in the dark.
3.	Candles are considered as a source of light.
4.	When your toy car crashes into a wall, it will stop moving.
5.	Engineers use parachutes in the Shockwave truck designs.
6.	If you let a pen out of your hand, it falls to the ground.
7.	Shadow of an opaque body is formed when light falls on it.
8.	You can see an object placed behind a glass cup.
9.	A mirror can reflect light better than a painted surface.

1.	*(7) What happens if?  The traffic light becomes red while you are going to cross the road.
2.	A car runs out of fuel on a flat road.
3.	You push two similar balls with different forces on the ground
4.	The mirror-like membrane in the fishing cat's eyes is not present.
5.	The moon can't reflect the sunlight
6.	You kick a stopped ball on the ground.
7.	The Shockwave driver opens the parachutes
8.	The pulling forces of the two teams are equal in the tug-of-war game.
9.	You let your toy out of your hand.
10	You place a wood sheet between a light source and a wall.
11	Light falls on a transparent body such as a glass window.
12	Light falls on a rough surface

## \*(8) Choose from column (B) what suits it in column (A):

1

A	В	
1. Thumb-up	a. is a code that means that you say "No".	
2. Echolocation	<b>b.</b> is a code that means that you say "Yes".	
3. Thumb-down	<b>c.</b> is a type of communication in animals only.	

1-

2-

3-

2

A	В
1. Mirror	<b>a.</b> It is a smooth and shiny surface that reflects most of fall ing light
2. Piece of cloth b. It is considered as a source of light	
3. Reflected light   c. It is a rough surface that scatters reflected light rays	
	<b>d.</b> It is the light that bounces off a reflecting surface

1-

2-

3-

### **\***(9) TRY TO ANSWER:

1

The following figure shows two similar toy cars are pushed to move on the same floor, study the figure then answer the questions below:

1. Which of these two cars is affected by a greater force?

(Give a reason for your answer).	Original position
	A
	8 8
2. Choose the correct answer:	35 cm

- 1. If the two cars were pushed by the same force, so ......
- a. car (A) would move for a longer distance than car (B).
- **b.** car (B) would move for a longer distance than car (A).
- c. the two cars would move the same distance.
- d. the two cars would not move.
- 2. The two cars during motion are affected by all the following forces, except ......
- a. the pushing force.

- **b.** the friction force of the air.
- **c.** the friction force of the floor.
- d. the pushing gravity force.

2

## Study the following three figures, then put ( $\sqrt{\ }$ ) or (X):

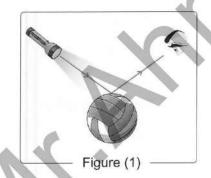
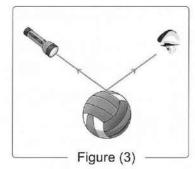




Figure (2)

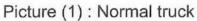


- 1. Human's eyes can see the ball in figure (3), because the ball emits light.
- 2. Figure (2) is not correct, because human's eyes don't emit light. ( )
- **3.** Figure (1) is correct, because the light ray of the flashlight bounces off the ball to the human's eyes.

)

### Look at the following pictures, then complete the following sentences:







Picture (2): Jet airplane

- 1. The engine of picture ( ........ ) is much powerful than the engine of picture ( ........).
- 2. When the engines of picture ( ......... ) are placed in the picture ( ........ ) it will turn into the Shockwave truck.
- 3. The engines that are used in picture ( ......... ) are the same engines that are used in the Shockwave truck.

### Look at the opposite figure, then answer the following questions:

#### 1. In the opposite figure

what happens if we increase the number of fire extinguishers fixed to the cart.

### 2. Put $(\sqrt{})$ or (X):

- 1. Air released by fire extinguishers moves backward, so the cart moves forward.
- 2. When we decrease the number of fire extinguishers, the cart moves for a longer

distance.

Look at the following pictures, then choose if the forces are "Balanced" or "Unbalanced."



1. A book on a table (Balanced – Unbalanced)



2. A seesaw (Balanced – Unbalanced)

#### Complete the following sentences using the words below:

### (source of light - mirror-like membrane - bounce off)

- 1. All cats have a ...... at the back of their eyes.
- 2. Any object that gives off its own light is called a ......
- 3. We can see objects when the light rays ...... these objects to our eyes

7

## Write the type of force that is used in each of the following situations:





2.



3. .....



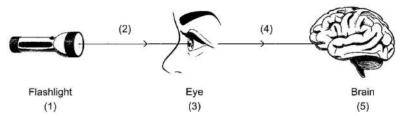
4. .....

8

# Classify the following materials into opaque objects and transparent objects: "Wood - Air - Water - Metal - Lenses"

Opaque objects	Transparent objects

## Study the following figure, then put ( $\sqrt{\ }$ ) or (X):



- 1. Number (5) represents the sense organ of light.
- 2. Number (1) represents a source of light.
- 3. Number (4) represents a special nerve through which the eye sends information to the brain for processing it.
- 4. Number (2) represents a light ray that travels in straight line to enter the eye. ( )
- 5. Number (3) and (5) working together to collect and process different sounds. (

10

# Arrange the following statements to show the correct sequence of how humans see different objects:

- ( .............) Special nerves in the eyes send messages to the brain.
- ( ............) The reflected light rays travels in a straight line into the eyes.
- ( ...... Light rays reflect off objects around us.

11

### Look at the following figures, then answer the questions below:



Figure (a)

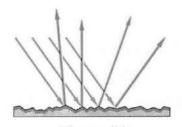


Figure (b)

## 1. Complete:

- a. The surface in figure (a) is .....
- Because .....
- **b.** The surface in figure (b) is .....
- Because .....

### 2. Choose:

The surface in figure (a) may be .....

- a. plastic.
- b. wood.

c. mirror.

d. cloth.

## Model Answer

#### \* (1) Write the scientific term:

1.	Force	4. Motion	<b>8.</b> Eye	12. Opaque object
2.	Push	5. Gravity	9. Brain	13. Rough surface
	force	6. Friction force	10. Light energy	<b>14.</b> Ears
3.	Pull force	7. Friction force	11. Transparent object	Control of the Control

#### (2) Choose the right answer:

1. C	6. C	11. B	16. D	<b>21.</b> D
2. C	7. B	12. D	17. B	<b>22.</b> B
3. D	8. D	13. D	18. C	<b>23.</b> B
<b>4.</b> A	<b>9.</b> B	14. C	19. C	24. A
<b>5.</b> A	10. A	<b>15.</b> D	<b>20.</b> C	

#### **\***(3) Put (√) or (X):

<b>1.</b> (√)	7. (X)	<b>13.</b> (√)	19. (√)
<b>2.</b> (√)	<b>8.</b> (√)	14. (X)	<b>20.</b> (√)
<b>3.</b> (√)	<b>9.</b> (√)	15. (X)	21. (\(\sqrt\)
<b>4.</b> (√)	10. (X)	16. (X)	
<b>5.</b> (√)	11. (X)	<b>17.</b> (√)	- / /-
<b>6.</b> (√)	<b>12.</b> (√)	<b>18.</b> (√)	

#### \*(5) Complete the following sentences:

1.	Longer	5. Light	9. Gravity	12. Opaque – light
2.	Friction	6. Sound – light	10. Push force	13. Sight – hearing
3.	Vision	7. Light	11. Opaque –	
4.	Structural	8. Speed	transparent	

#### \*(4) Correct the underline

1.	Pushing	5.	Opposite	9.	Light
2.	Pulling	6.	Decrease	10.	Sun
3.	Unbalanced	7.	Transparent	11.	Light
4.	Motion	8.	Smooth	12.	Brain

#### \*(6) Give reasons for:

- 1. To warn off from predators or to attract a mate.
- 2. Because it has a mirror-like membrane at the back of its eyes which bounces off the light.
- 3. Because it gives off its own light.
- Because the wall applied a force to the car with the same amount of the force that pushes the car toward the wall. 4.
- 5. To help slow down the Shockwave truck quickly.
- 6. Due to the pulling force of the gravity down toward the Earth.
- 7. Because the opaque body doesn't allow light to pass through.
- 8. Because the glass cup is a transparent material which allows light to pass through.
- 9. Because the mirror is smoother than the painted surface.

#### #(7) What happens if ... ?

- 1. The eyes send a message to my brain to stop walking and not cross the road.
- 2. Its speed decreases gradually until it stops.
- 3. The ball that is affected by the greater force will move a longer distance than the other ball.
- 4. It cannot see clearly and hunt at night.
- It seems to be dark and we can't see it.
- 6. It starts to move on the ground.
- 7. The Shockwave truck starts to stop gradually.8. The rope will not move because the two forces are balanced.
- 9. It will fall down on the ground due to the pulling force of gravity.
- 10. The shadow of the wood sheet is formed on the wall, because light rays cannot pass through it.
- 11. Light passes through the glass window.
- 12. Light rays are reflected in different directions.

#### \*(8) Choose from column (B) what suits it in column (A):

Ц		
1- b	2- с	3- a
1- b 2 1- a		
1- a	2- c	3- d

\*(9) TRY TO ANSWER:

## (1) A – because it moves for longer distance 2. d 1. c

1. (X)

- (1) 2 1**2.** (√) (2) 2 - 1**3.** (√) (3) 2
- (1) It will move by more speed and longer

(2)

distance.

- 1.  $(\sqrt{\ })$
- 2. (X)

Balanced - Unbalanced

6

- 1. Mirror like membrane
- 2. Source of light
- 3. Bounce off

7

- 1. Push
- 2. Pull
- 3. Pull
- 4. Push

8

First Term 2022/2023

- 1. Opaque objects: wood metal
- 2. Transparent object : air water lenses

9

- 1. (X)
- 2.  $(\sqrt{})$
- **3.** (√)
- **4.** (√)
- 5. (X)

10

(3) - (2) - (4) - (1)

11

- 1. (a) smooth because it reflects light in straight line
  - (b) rough because it reflects light in different direction